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DATE: FEBRUARY 15, 2005**NUMBER OF PAGES (INCLUDING
THIS TRANSMITTAL COVER SHEET):** 12**TIME:****OUR REFERENCE:** 223592

FROM: CHRISTOPHER T. GRIFFITH
REGISTRATION No. 33,392

To: EXAMINER Ling X. Xu
GROUP 1775
MAIL STOP AMENDMENT
COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

TELEPHONE NUMBER:

FACSIMILE NUMBER: 703-872-9306

IN RE APPLN. OF: ANDRIESSEN
APPLICATION NO. 10/628,618
FILED: JULY 28, 2003
FOR: NANO-POROUS METAL OXIDE SEMICONDUCTOR
SPECTRALLY SENSITIZED WITH METAL OXIDE
CHALCOGENIDE
GROUP ART UNIT: 1775
EXAMINER: Ling X. Xu

A RESPONSE TO THE OFFICE ACTION DATED NOVEMBER 15, 2004 FOLLOWS.

A confirmation copy of the transmitted document will: Not be sent. This will be the only form of delivery of the transmitted document.

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In re Application of: ANDRIESSEN
 Application No. 10/628,618
 Filed: July 28, 2003
 For: NANO-POROUS METAL OXIDE SEMICONDUCTOR SPECTRALLY SENSITIZED WITH METAL OXIDE CHALCOGENIDE

Mail Stop Amendment
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

Sir:

Transmitted herewith is a response to an office action in the subject application.

Small entity status is claimed for this application under 37 CFR 1.27.

Petition for an extension of time for the period noted below, as well as for any additional period necessary to render the present submission timely. Please charge Deposit Account No. 12-1216 for the appropriate petition fee.

Other:

Please charge Deposit Account No. 12-1216 in the total amount indicated below. A duplicate copy of this transmittal sheet is enclosed herewith.

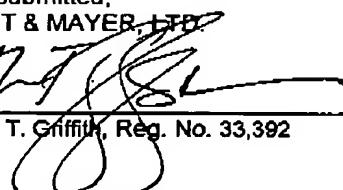
| | | | | | SMALL ENTITY | OTHER THAN A SMALL ENTITY | | |
|---|---|-------|------------------------------------|----------------------|--------------|---------------------------|--------------|-----------------|
| TIME EXTENSION PETITION FEE | | | none | | \$ 0.00 | \$ 0.00 | | |
| | subtract time extension fee previously paid | none | | | (\$ 0.00) | (\$ 0.00) | | |
| CLAIM FEE | CLAIMS REMAINING AFTER AMENDMENT | | HIGHEST NUMBER PREVIOUSLY PAID FOR | EXTRA CLAIMS PRESENT | RATE | ADD'L CLAIM FEE | RATE | |
| TOTAL | 19 | MINUS | 22 | = | x 25= | \$ | x 50= | \$ |
| INDEPENDENT | 5 | MINUS | 4 | = 1 | x 100= | \$ | x 200= | \$200.00 |
| <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE CLAIM | | | | | + 180= | \$ | + 360= | \$ |
| TOTAL AMOUNT TO BE CHARGED TO DEPOSIT ACCOUNT | | | | | TOTAL | \$ | TOTAL | \$200.00 |

The Commissioner is hereby authorized to charge any deficiencies in the following fees associated with this communication or credit any overpayment to Deposit Account No. 12-1216.

Any filing fees under 37 CFR 1.16 for the presentation of extra claims.

Any patent application processing fees under 37 CFR 1.17.

Respectfully submitted,
 LEYDIG, VOIT & MAYER, LTD.

By 
 Christopher T. Griffith, Reg. No. 33,392

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 Two Prudential Plaza, Suite 4900
 180 North Stetson Avenue
 Chicago, Illinois 60601-6780
 (312) 616-5600 (telephone)
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Amendment or ROA Transmittal (Revised 12/3/04)

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In re Application of: ANDRIESSEN

Application No. 10/628,618

Filed: July 28, 2003

For: NANO-POROUS METAL OXIDE SEMICONDUCTOR SPECTRALLY SENSITIZED WITH METAL OXIDE CHALCOGENIDE

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Commissioner for Patents

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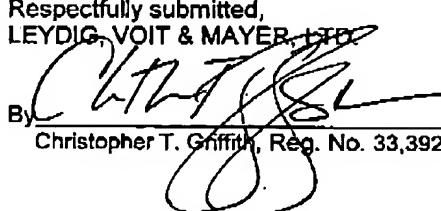
Please charge Deposit Account No. 12-1216 in the total amount indicated below. A duplicate copy of this transmittal sheet is enclosed herewith.

| TIME EXTENSION PETITION FEE | | none | | | SMALL ENTITY | | OTHER THAN A SMALL ENTITY | | | | |
|---|---|--|---|----------------------------|--------------|-----------------------|------------------------------|-----------------------|--|--|--|
| | | | | | \$ 0.00 | | \$ 0.00 | | | | |
| | | subtract time extension fee previously paid | | | (\$ 0.00) | | (\$ 0.00) | | | | |
| <hr/> | | | | | | | | | | | |
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| <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE CLAIM | | | | + 180= | \$ | + 360= | \$ | | | | |
| <hr/> | | | | | | | | | | | |
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Respectfully submitted,
LEYDIG, VOIT & MAYER, LTD.By 
Christopher T. Griffith, Reg. No. 33,392

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Amendment or ROA Transmittal (Revised 12/3/04)

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FEB 15 2005

PATENT

Attorney Docket No. 223592
Client Reference No. GN02090

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

ANDRIESSEN

Application No. 10/628,618

Art Unit: 1775

Examiner: Ling X. Xu

Filed: July 28, 2003

For: NANO-POROUS METAL OXIDE
SEMICONDUCTOR SPECTRALLY
SENSITIZED WITH METAL OXIDE
CHALCOGENIDE

RESPONSE TO OFFICE ACTION

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to the Office Action dated November 15, 2004, please enter the following amendments and consider the following remarks.

| CERTIFICATE OF MAILING OR TRANSMISSION UNDER 37 CFR 1.8 | | | |
|---|---------------------|------|-------------------|
| I hereby certify that this Response to Office Action and all accompanying documents are, on the date indicated below, <input type="checkbox"/> being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop , Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or <input checked="" type="checkbox"/> being facsimile transmitted to the U.S. Patent and Trademark Office, Attention: Examiner Ling X. Xu, Art Unit 1775, Facsimile Number 703-372-9306. | | | |
| Name (Print/Type) | Elizabeth Hernandez | | |
| Signature | Elizabeth Hernandez | Date | February 15, 2005 |